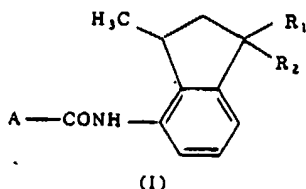


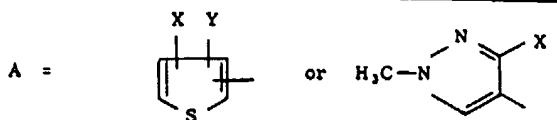
OD- 034367 /90

90-034367/05 C02 MITU 13.06.88
 MITSUBISHI KASEI CORP. *JO 1313-402-A
 13.06.88-JP-145032 (18.12.89) A01n-43/10 C07d-231/14
 C07d-233/38
 Preventing agent for *Botrytis cinerea*. Includes N-indanyl-carboxamide derivs. pref. applied as emulsion
 C90-015156

Agent for preventing *Botrytis cinerea* infections contains N-indanylcaboxamide derivs. of formula (I):



C(7-B1, 7-D10, 10-A9B, 10-A22, 10-H1, 12-A2C, 12-M3, 12-M9) 7 60079



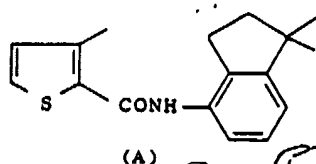
X = halogen, methyl or trifluoromethyl;
 Y = H, methyl or halogen;
 R₁ and R₂ = H or lower alkyl.

USE/ADVANTAGE

(I) are effective against *Botrytis cinerea* having resistance to benzimidazole, thiophanate and cyclic imide-type fungicides.

200 ppm of (I) is 100% preventively effective against *Botrytis cinerea*, as opposed to 0% effective when using 200 ppm of cpd. (A):

J01313402-A +



APPLICATION

(I) are pref. applied as emulsion or wettable powder by mixing with solvent (e.g. H₂O, methanol, acetone), filling agent (e.g. kaolin, talc, CMC), surfactant (e.g. polyoxyethylene alkyl allyl ether, alkyl dimethylbenzyl ammonium chloride), etc. The compsn. is diluted with water to (I) concn. of 10 - 1000 ppm.

An emulsion is comprised of 10 - 50 pts. wt. of (I), 10 - 80 pts. wt. of a solvent and 3 - 20 pts. wt. of a surfactant. A wettable powder is comprised of 5 - 80 pts. wt. of (I), 10 - 90 pts. wt. of a filling agent and 1 - 20 pts. wt. of a surfactant.

Application rate of the diluted emulsion (or hydrate) is 10 - 500 l/10 a.

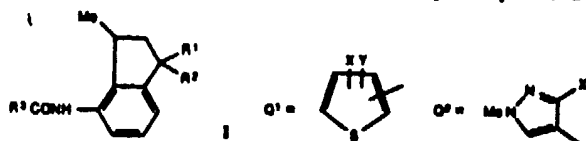
EXAMPLE

A wettable powder was obtd. by pulverising and mixing (I; A = 3-methyl-2-thienyl; R₁, R₂ = Me) (20 pts. wt.), diatomite (75 pts. wt.) and surfactant contg. alkylbenzenesulphonic acid (5 pts. wt.).
 (8ppW178DAHDwgNo0/0).

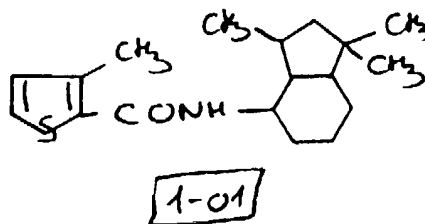
(I) } 8EG, 9GI, 10G,
 1KΦ, 17Z, 18Z

J01313402-A

113: 19445x Gray mold-controlling agents containing N-indan-2-carboxylic acid amides as active ingredients. Oda, Masaji; Nakajima, Tetsuo (Mitsubishi Kasei Corp.) Jpn. Kokai Tokkyo Koho JP 61,813,463 (59,813,463) (Cl. A01N43/10), 18 Dec 1986, Appl. 88/145,032, 13 Jun 1988; 9 pp. Gray mold-controlling agents contain N-indan-2-carboxylic acid amides I (R₁, R₂ = H, lower alkyl; R₃ = Q¹, Q²; X = halo, Me, CF₃; Y = H, Me, halo) as active ingredients. N-(3-Methylthiophene-2-carbonyl)-2,2,4-trimethyl-1,2,3,4-tetrahydroquinoline in 85% H₂SO₄ was heated at 60° for 3 h to give 87% 3-methyl-N-(1,1,3-trimethylindan-4-yl)thiophene-2-carboxamide (II).



A wettable powder comprising II 20, diatomaceous earth 75, and surfactants 5 wt. parts was dild. with H₂O to 200 ppm (as II) and applied to stems and leaves of cucumber in a pot to totally control *Botrytis cinerea* after 4 days.



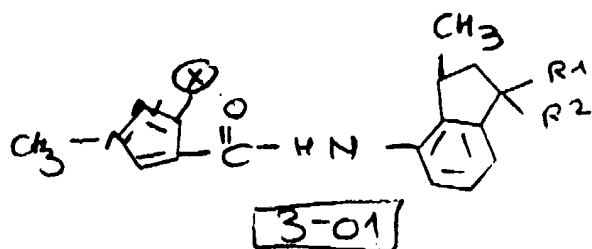
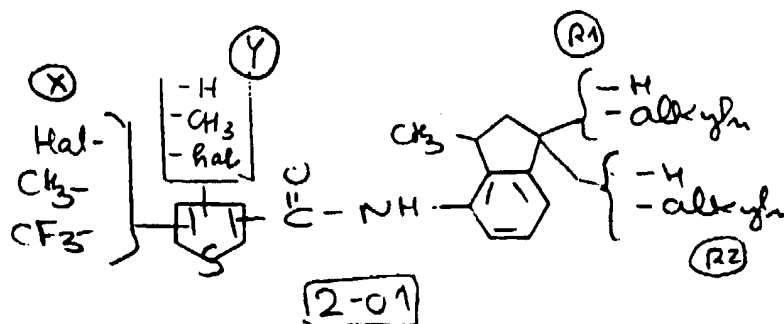
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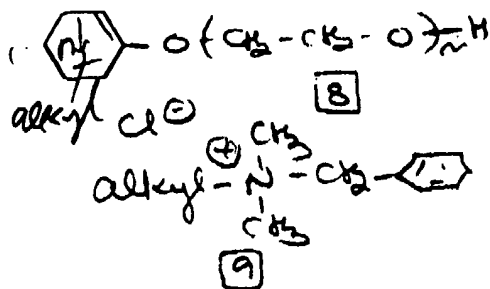
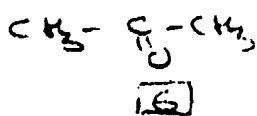
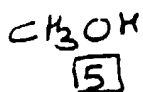
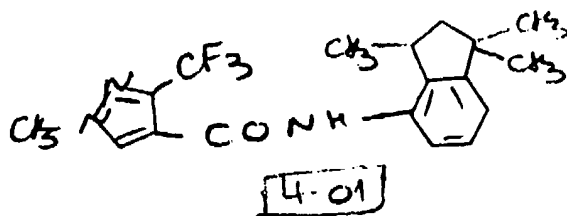
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CONTROLLER OF GRAY MOLD COMPRISING N-INDANYLCARBOXYLIC ACID AMIDE CATALYST AS ACTIVE INGREDIENT

Publication number: JP1313402

Publication date: 1989-12-18

Inventor: ODA MASAJI; NAKAJIMA TETSUO

Applicant: MITSUBISHI CHEM IND

Classification:

- international: C07D233/38; A01N43/10; A01N43/56; C07D231/14; C07D231/16; C07D333/38; C07D333/38; C07D233/00; A01N43/02; A01N43/48; C07D231/00; C07D333/00; C07D333/00; (IPC1-7): A01N43/10; A01N43/56; C07D231/14; C07D231/16; C07D233/38

- european:

Application number: JP19880145032 19880613

Priority number(s): JP19880145032 19880613

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Abstract of JP1313402

PURPOSE: To obtain the title controller showing excellently fungicidal activity against gray mold and high activity against fungi exhibiting resistance free from phytotoxicity comprising an N-indanylcarboxylic acid amide derivative as an active ingredient. **CONSTITUTION:** The title controller comprising an N-indanylcarboxylic acid amide derivative such as 3-methyl-N-(1,1,3-trimethylindan-4-yl)-thiophene-2-carboxamide shown by formula I [A is group shown by formula IV (X is halogen, CH₃ or CF₃; Y is H, CH₃ or halogen) or group V; R₁ and R₂ are H or lower alkyl] as an active ingredient. The active ingredient is blended with a carrier and an auxiliary and preferably used in the form of emulsion, wettable powder, etc. The compound shown by formula I, for example, is obtained by reacting a carboxylic acid shown by formula II with an aminoindane derivative shown by formula III optionally in an inert solvent. The agent has low toxicity to men, animals and fishes.

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